



SAN LUIS OBISPO COUNTY

## DEPARTMENT OF PLANNING AND BUILDING

Promoting the wise use of land - Helping to build great communities

### THIS IS A NEW PROJECT REFERRAL

DATE: 10/21/2015

TO: \_\_\_\_\_

FROM: MICHAEL CONGER, 805-781-5136, [mconger@co.slo.ca.us](mailto:mconger@co.slo.ca.us)  
NORTH COUNTY Team / Development Review

**PROJECT DESCRIPTION:** PMT2015-00556 HILLIARD, PROPOSED MAJOR GRADING FOR SINGLE FAMILY RESIDENCE, SITE LOCATION IS 13955 SAN MIGUEL ROAD, ATASCADERO  
APN: 051-371-002

Return this letter with your comments attached no later than 14 days from receipt of this referral. CACs please respond within 60 days. Thank you.

PART 1 - IS THE ATTACHED INFORMATION ADEQUATE TO COMPLETE YOUR REVIEW?

- ☐ YES (Please go on to PART II.)  
☐ NO (Call me ASAP to discuss what else you need. We have only 10 days in which we must obtain comments from outside agencies.)

PART II - ARE THERE SIGNIFICANT CONCERNS, PROBLEMS OR IMPACTS IN YOUR AREA OF REVIEW?

- ☐ YES (Please describe impacts, along with recommended mitigation measures to reduce the impacts to less-than-significant levels, and attach to this letter.)  
☐ NO (Please go on to PART III.)

PART III - INDICATE YOUR RECOMMENDATION FOR FINAL ACTION.

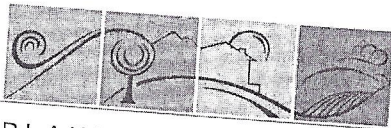
Please attach any conditions of approval you recommend to be incorporated into the project's approval, or state reasons for recommending denial.

IF YOU HAVE "NO COMMENT," PLEASE SO INDICATE, OR CALL.

\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Phone



# CONSTRUCTION

PLANNING & BUILDING DEPARTMENT • C  
976 OSOS STREET • ROOM 200 • SAN LUIS OBISPO •

Case: **PMT2015-00556**  
HILLIARD - AUL G  
Project: Grading Major - over 10% slope or > 5000 cu yds  
APN: 051-371-002  
MAJOR GRADING & RETAINING WALL FOR  
SFD.  
00000 SAN MIGUEL RD ATAS

## PROPERTY INFORMATION

Assessor Parcel Number(s): 051-371-002 Project Address: 13955 SAN MIGUEL

APPLICANT / PROFESSIONAL INFORMATION (Check ☐ contact person. Agents must fill out Authorization of Agent.)  
☒ Landowner Name PAUL HILLIARD

Mailing Address PO BOX 1924 City: ATASCADERO Daytime Phone: 805-610-0756  
Email Address PHILLIARD@YAHOO.COM Zip: 93425

☐ Licensed Professional In Charge of Project  
Mailing Address SAME City: SAME Phone: SAME License: SAME  
Email Address SAME

☒ Licensed Contractor GLOBAL CONSTRUCTION Phone: 610 0756  
Mailing Address PO BOX 1924 City: ATASCADERO License: 928076  
Email Address PHILLIARD@GMAIL.COM

☐ Agent for ☐ Contractor ☐ Owner  
Mailing Address \_\_\_\_\_ Phone: \_\_\_\_\_  
Email Address \_\_\_\_\_ City: \_\_\_\_\_ Zip: \_\_\_\_\_

## PROJECT INFORMATION (please fill out this section completely)

Scope of Work: GRADING FOR SINGLE FAMILY RESIDENCE

• Structure Info - Conditioned Area 1650 sq. ft. • Unconditioned Area \_\_\_\_\_ sq. ft. • Deck/Porch/Patio \_\_\_\_\_ sq. ft.  
Retaining Wall Length 140 lin. ft. • Bedrooms 2 • Bathrooms 2 • Stories 1 • Roof Height 18 ft.  
• Utilities - ☐ Well ☒ Septic ☒ Public - agency or company for water/sewer ATAS MUTUAL  
• Grading - Cut 700 c.y. Fill: 170 c.y. Total 870 c.y. Slope: >10% Area of disturbance .32 ac.  
• Impervious surface area \_\_\_\_\_ sq. ft. (May require separate Stormwater Control Plan Application)  
• Solar - ☐ Grid tied ☐ Off Grid Total KW \_\_\_\_\_ ☐ New Electric Meter 200 Amps 14,000 SQ FT

## WASTE MANAGEMENT - RECYCLING PLAN

Are you planning to

- ☒ A) use an Integrated Waste Management Authority (IWMA)-certified construction and demolition waste recycling facility? or  
☐ B) use other recycling and disposal facilities? (complete Detailed Recycling Form)

BY MY SIGNATURE BELOW, I CERTIFY TO EACH OF THE FOLLOWING:

- ☒ I am the property owner, contractor, or am authorized to act on the property owner's behalf, and the information I have provided above is correct. I acknowledge that I have read and understand the information contained herein.  
☒ I agree to comply with all applicable city and county ordinances and state laws relating to building construction.  
☒ I authorize representatives of this city or county to enter the above-identified property for inspection purposes.  
☒ My construction permit application is public record and is therefore published in the weekly reports on the San Luis Obispo County Planning and Building Department's website, as well as in the public information area. All references to names, addresses, telephone numbers, and project information will be part of this public record. All applications must be filed under the property owner's name and address; however, I may use an alternate contact address and telephone number.  
☒ I acknowledge my application will expire after 6 months (2 months for Code Enforcement), if not issued by that time.

Signature of Owner / Authorized Agent

Date

8-21-15

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Contractor Signature

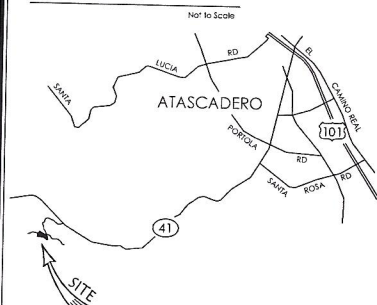
Date

8-21-15

CONSTRUCTION PERMIT APPLICATION  
SAN LUIS OBISPO COUNTY PLANNING & BUILDING  
SLOPLANNING.ORG



## VICINITY MAP



## LEGAL DESCRIPTION

LOT 30, BLOCK 79 PER SAC/MB/14  
APN 051-371-002

## BENCHMARK

## OWNER

Mr. Paul Hillard

## SURVEYOR

Geo-West Land Surveys  
P.O. Box 1383  
San Luis Obispo, CA 93406-1383  
(805) 461-5540

## APPLICABLE CODES

- 2013 Building Standards Code
  - California Building Code, Vol. 1 & 2 (2013 BC)
  - California Residential Code (New) (2012 IRC)
  - California Plumbing Code (2013 UPC)
  - California Mechanical Code (2012 UMC)
  - California Electrical Code (2011 NEC)
  - California Energy Code (2008 with 7/1/2014)
  - California Green Building Code
  - California Fire Code (2013 FIC)
  - California Reference Standards Code
  - County Building and Construction Ordinance - Title 19
  - County Fire Code Ordinance - Title 14
  - County Land Use Ordinance - Title 22

## PROJECT STATISTICS

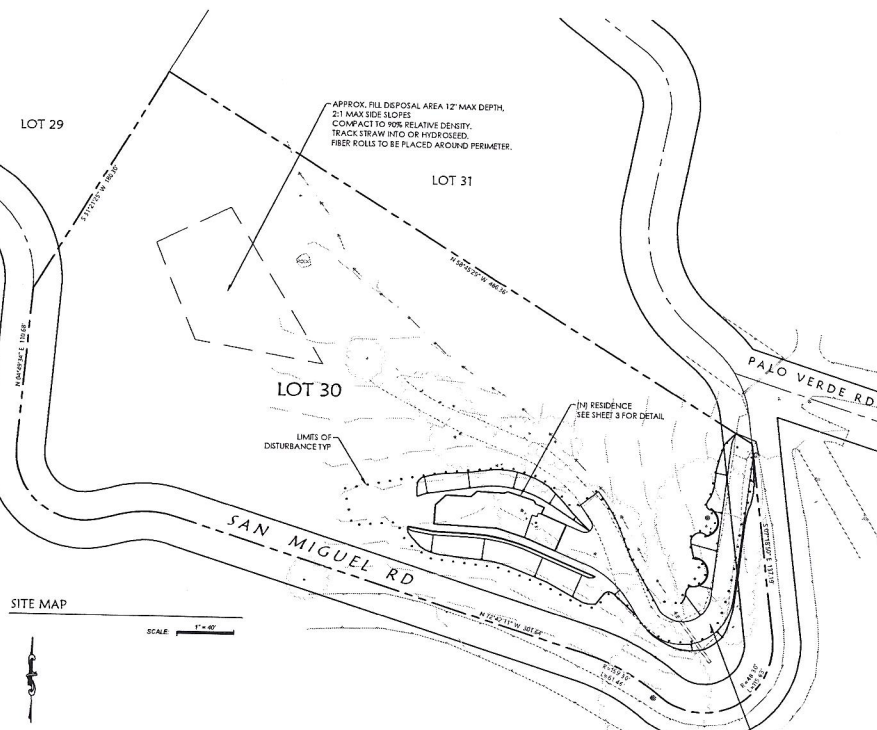
Cut 700 CYs, Fill 380 CYs, Total 1080 CYs  
Max. cut = 7' ft. Max. fill = 6' ft.  
Average slope > 10%  
Parcel Area = 2.95 acs  
Pre-Project [if a]  
Impervious Area = 0, Total Project Area = 16,300  
Post-Project [if a]  
Total Impervious Area = 4100, Previous Area = 7900  
New Imp. Area = 4100, Removed Imp. Area = 0  
Replaced Imp. Surface = 0  
Total Site Disturbance = 16,300



Drafting Services  
pacificmilepost.com

## Hilliard - San Miguel Road - Grading, Drainage &amp; Erosion Control Plan

PROJECT DESCRIPTION: Single family residence.



## SITE MAP

SCALE: 1" = 40'

## ABBREVIATIONS

AC	Asphalt Concrete Paving
AP	Angle Point
CO	Clearcut
CL	Centerline
CONEC	Concrete
CONET	Construction
DN & Q	Diameter
ELEV	Elevation
[E] & [I]	Existing
FF	Finished Floor
FS	Finished Surface
FL	Free Water
FL	Flow Line
G	Grate
GB	Grade Break
GR	Gravel
HDPE	High-density Polyethylene
HP	High Point
INV	Invert Elevation
LT	Left
LF	Linear Feet
LP	Low Point
MH	Manhole
N	New / Proposed
PO	Power
PC	Point Of Curvature
PL	Property Line
PRC	Point Of Reverse Curvature
PT	Point Of Tangency
PUE	Public Utility Easement
PVC	Polyvinyl Chloride
R	Radius
RP	Right
RP	Right-of-way
S	Slope
SD	Storm Drain
SS	Sanitary Sewer
STA	Station
T	Top Of Wall
TYP	Typical
W	Water

## LEGEND

---	Property Line
---	Centerline
---	Existing Ground Contour
---	Finish Grade Contour
---	Concrete
---	Edge of Pavement
---	Water Line
---	Fire Hydrant
---	Water Valve
---	Fire Hydrant
---	Sanitary Sewer Main
---	Electrical Line
---	Overhead Line
---	Utility Pole
---	Guy Anchor
---	Dec. Vault / Pedestal / Full Box
---	Telephone Line
---	Tele. Vault / Pedestal / Full Box
---	Fence
---	Gas Main
---	Flowline
---	Proposed Grade & Direction
---	Construction Note Reference
---	Spot Elevation
---	Proposed Slope
---	Retaining Wall
---	SB Fence

## GENERAL NOTES

- No construction shall be started without plans approved by the County Building Department. The Building Department shall be notified at least 24 hours prior to starting construction and at the time location of the preconstruction conference. Any construction performed without approved plans or prior notification to the Building Department will be rejected and will be at the contractor's and/or owner's risk.
- For any construction performed that is not in compliance with plans or permits approved for the project the Building Department may require all active permits and recommend that County Code Enforcement provide a written notice or stop work order in accordance with Section 22.52.140 of the Land Use Ordinance.
- All construction work and installations shall conform to the most current County of San Luis Obispo Public Improvement Standards and all work shall be subject to the approval of the Building Department.
- The project owner and contractor shall be responsible for providing and/or maintaining all weather access at all times to existing properties located in the vicinity of work. Additionally, they shall be responsible for maintaining or existing services, including utility, garbage collection, mail distribution, etc., to all existing properties located in the vicinity of work.
- On-site hazards to public safety shall be shielded by construction fencing. Fencing shall be maintained by the project owner and contractor until such time that the project is completed and occupied. Potential hazards have been mitigated, or alternative protective measures have been initiated.
- Soil tests shall be done in accordance with the County Public Improvement Standards, Section 3.2.2. All tests must be made within 15 days prior to the placing material. The test results shall clearly indicate the location and source of the material.
- Roadway compaction tests shall be made on subgrade material, aggregate base material, and material as specified by the Soil Engineer. Soil tests shall be made prior to the placement of the next material lift.
- Subgrade material shall be compacted to a relative compaction of 95% or better. All material in fill sections below the zone mentioned above shall be compacted to 90% relative compaction.
- A registered civil engineer shall certify that the improvements when completed are in accordance with the plans prior to the request for a final inspection. Record Drawings shall be prepared after construction is completed. The civil engineer certifying the improvements and preparing as-built plans may be present when the final inspection is made by the County.
- An Engineer of Work Agreement and an Engineer Checking and Inspection Agreement are required prior to the start of construction. The Building Department shall be notified in writing of any changes to the Engineer of Work Agreement. Construction shall proceed without an Engineer or Work.
- All utility companies shall be notified prior to the start of construction.
- A County Encroachment Permit is required for all work done within the County right-of-way. The Encroachment Permit may establish additional construction, utility and traffic control requirements.
- The County Inspector acting on behalf of the County Building Department may require revision in the plans to solve unforeseen problems that may arise in the field. All revisions shall be subject to the approval of the Developer's Engineer of Work.
- The structural section shall be based on soil tests taken at the time of construction and using a factor of safety of 1.5. The structural section shall be approved by the Building Department prior to road construction.
- Hydro-seeding or other permanent erosion control shall be placed and established with 100% coverage on all disturbed surfaces (other than paved or gravel surfaces) prior to the final inspection.
- For any public improvements to be maintained by the County, if environmental permits from the U.S. Army Corps of Engineers, the California Regional Water Quality Control Board/State Water Resources Control Board, or the California Department of Fish & Game are required, the Developer shall, as a condition of approval, submit a copy of all completed permits to the County Building Department. The County Building Department will accept the acceptance of the completed improvements for County maintenance by said permits will remain the responsibility of the Developer.

- When the project site earthwork is not intended to balance then a separate grading permit for the grading or retaining property may be required. A copy of the permit(s) or evidence that no permits are required shall be submitted to the Department prior to commencing project earthwork.

## GRADING NOTES

- All grading construction shall conform to the applicable codes as noted under "Applicable Codes" heading.
- The developer shall be responsible for scheduling a pre-construction meeting with the County and other affected agencies. The contractor shall notify the County Building Department at least 24 hours prior to any work being performed, and arrange for inspection.
- Grading shall comply with the recommendations of the preliminary soil report by Mid-Coast Geotechnical, Inc., dated April 8, 2015 filed with the County of San Luis Obispo.
- Estimated earth quantities:  
Cut: 700 CYs  
Fill: 380 CYs  
Note: exact shrinkage, consolidation, and subsidence factors and losses due to bearing operations are not included. Estimated earthwork quantities are based upon the difference between existing ground surface and proposed finish grades, or sub grades as shown on the plan, and should vary according to these factors. The contractor shall be responsible for site inspection and quantity take off, and shall bid accordingly.
- Soil engineer to determine the soil is suitable to support the intended structure. Such report including progress and/or completion report shall be submitted to the field inspector prior to final inspection when a soil report is obtained. The County policy regarding post construction shall be followed. When applicable the engineer shall observe the grading operation(s) and provide the field inspector with required completion reports and a report stating that the grading performed has been observed and is in conformance with the UEC and County ordinances.
- No cut or fill slopes will be constructed steeper than two horizontal to one vertical (2:1).
- Dust control is to be maintained at all times during construction.
- Areas of fill shall be scarified, benched and recompact prior to replacing fill and observed by a soil or civil engineer.
- Fill material will be recompact to 90% of maximum density.
- Remove any deleterious material encountered before placing fill.
- All disturbed areas shall be hydro seeded or planted with approved erosion control vegetation as soon as practical after construction is complete.
- Minimum setback to creeks and bluffs shall be maintained. Minimum setback of two feet from all property lines will be maintained for all grading.
- Minimum slope away from buildings shall be 5% for the first ten feet around perimeter.
- The contractor shall be responsible for the protection of all existing survey markers during construction. All such monuments or markers disturbed shall be reset at the contractor's expense.
- All contractors and subcontractors working within the right of way shall have an appropriate contractor's license, a local business license, and shall obtain an encroachment permit.
- Engineering reports for cut or fill slope steeper than 2:1 shall be submitted to the field inspector.

## UNDERGROUND UTILITY NOTES

- An effort has been made to define the location of underground facilities within the job site. However, all existing utility and other underground structures may not be shown on this plan and their location where shown is approximate. The construction contractor agrees that he shall assume sole and complete responsibility for locating or having located all underground utilities and other facilities and for protecting them during construction.
- All utility companies must be notified prior to the start of construction. The construction contractor shall contact underground service alert (USA) 811 two to ten days prior to the start of excavation and shall verify the location of any known utilities and whether or not a representative of each company will be present during excavation.



TABLE 3-7: PRI MANDATORY SITE DESIGN MEASURES *				
MANDATORY SITE DESIGN MEASURES (SELECT AT LEAST ONE)		SELECTED	REASON, IF NOT SELECTING	HANDBOOK SECTION
a.	Roof runoff directed into ditches or rain barrels for reuse?	optional	At owner's discretion	5.2.1
b.	Roof runoff directed into vegetated areas (setback away from building foundations and footings)?	yes		5.2.2
c.	Runoff from sidewalks, walkways, and/or patios directed onto vegetated areas (setback away from the building foundations and footings)?	yes		5.2.3
d.	Runoff from driveway and/or uncovered parking lots onto vegetated areas (setback away from the building foundations and footings)?	yes		5.2.4
e.	Construct bike lanes, alleyways, uncovered parking lots, sidewalks, walkways, and patios with permeable surfacing?	N/A		5.2.5



## Roberts Engineering

Timothy P. Roberts  
Civil Engineer - RCE 35366  
2015 Vista de la Vina  
Templeton, CA 93468  
Phone (805) 239-6664  
Fax (805) 238-6148  
Email: robertsengineering@earthlink.net

## Record Drawings

Drawn By	Checked By	Date
TR / JTM		
Revised By		
1		
2		
3		
4		
5		

Roberts Engineering, Inc.			
Hilliard - San Miguel Road			
Title Sheet			
Drawn By	Checked By	Approved For Construction	
TR / JTM			
Rev	County W. G. No.	Development Services Engineer	Date
15-012		Timothy P. Roberts, RCE 35366 exp 09/30/15	10/13/2015
California Counties (CCS), June 5,		County Road #	
N 2361800 E 5752260			
			1 of 3

## EROSION CONTROL NOTES

- Erosion control measures for wind, water, material stockpiles, and tracking shall be implemented on all projects at all times and shall include source control, including protection of stockpiles, protection of slopes, protection of all disturbed areas, protection of access, and perimeter containment measures. Erosion control shall be placed prior to the building Department determines temporary measures to be unnecessary based upon location, site characteristics or time of year. The intent of erosion control measures shall be to keep all generated sediments from entering a water, drainage way, watercourse, atmosphere, or migrate onto adjacent properties or onto the public right-of-way.
- The inspections and appropriate maintenance of all erosion control measures/devices shall be conducted and documented at all times during construction and especially prior to, during, and after rain events.
- The Developer shall be responsible for the placement and maintenance of all erosion control measures/devices as specified by the approved plan until such time that the project is accepted as complete by the Building Department or until released from the Conditions of Approval of the General Permit. Erosion control measures/devices may be relocated, deleted or additional measures/devices may be required depending on the actual conditions encountered during construction. Additional Engineer of Work, County Inspector, RWQCC Monitor, or RWQCC Inspector, for determining appropriate erosion control devices shall be included in the plans with additional measures/devices noted from the Appendix of the Public Improvement Standards.
- Wet weather erosion control measures/devices shall be available, installed, and/or applied between October 15 and April 15 anytime when the rain probability exceeds 30%.
- The Contractor, Developer, and Engineer of Work shall be responsible to coordinate an implementation plan for wet weather erosion control devices. A locally based standby crew for emergency work shall be available at all times during the rainy season (October 15 through April 15). Necessary materials shall be available and stock piled at convenient locations to facilitate rapid construction or maintenance of temporary devices when rain is imminent.
- In the event of a failure, the Developer and/or his representative shall be responsible for cleanup and all associated costs or damage. In the event permanent cleanup occurs within the right-of-way and the County is required to perform cleanup, the owner shall be responsible for County reimbursement of all associated costs or damage.
- In the event of failure and/or lack of performance by the owner and/or contractor to correct erosion control related problems the Building Department may revoke all active permits and recommend that County Code Enforcement provide a written notice or stop work order in accordance with Section 22.52.140 (23.10) of the Land Use Ordinance.
- Permanent erosion control shall be placed and established with 90% coverage on all disturbed surfaces other than paved or gravel surfaces, prior to final inspection. Permanent erosion control shall be fully established prior to final acceptance. Temporary erosion control measures shall remain in place until permanent measures are established.
- The County Air Pollution Control District (APCD) may have additional project specific erosion control requirements. The Contractor, Developer, and Engineer of Work shall be responsible for maintaining self-regulation of these requirements.
- All projects involving the disturbance of one acre or greater shall comply with the requirements of the National Pollutant Discharge Elimination System (NPDES). The Developer shall submit a Notice of Intent (NOI) to CDDP with the General Permit for Construction Activity with the Regional Water Quality Control Board (RWQCB). The Developer shall provide the County with the Waste Discharge Identification Number (WDID #) or with verification that an exemption has been granted by RWQCB.

WDID No.: n/a less than one acre site disturbance

Person to contact 24 hours a day in the event there is an erosion control/sedimentation problem (Storm Water Compliance Officer):  
Name: Paul Hillard  
Local Phone: (805) 410-0756

## SPECIAL INSPECTIONS

- All construction & inspections shall conform to 2013 California Building Code (CBC) Chapter 17.
- Special inspection requirement is required for this project, the owner or agent shall notify one or more special inspectors to provide inspections during construction on all tasks identified below.
- Special inspectors shall be a qualified person who shall demonstrate competence, to the satisfaction of the County Building Department. Names and qualifications of special inspectors (if any) shall be submitted to the County Building Department for approval.
- Each contractor responsible for the construction of components listed in the special inspections shall submit a written statement of responsibility to the County Building Department and the owner prior to the commencement of work. The statement shall contain the items listed in CBC 176.1.

- A final report prepared by a soil or civil engineer shall be submitted to the lead inspector stating the work performed is in substantial conformance with the approved plans, applicable codes, and is found to be suitable to support the intended structure. Such report shall include any field project reports, inspection data, etc.

### Section 1705.3 Statement of Special Inspections

- 1705.3 General Where special inspection or testing is required by Section 1704, 1707 or 1708, the registered design professional in responsible charge shall prepare a statement of special inspections in accordance with Section 1705 for submittal by the permit application (see Section 1704.1.1).

- 1705.2 Content of statement of special inspections. The statement of special inspections shall identify the following:

- The materials, systems, components and work required to have special inspection or testing by the building official or by the registered design professional responsible for each portion of the work.
- The type and extent of each special inspection.
- The type and extent of each test.
- Additional requirements for special inspection or testing for seismic or wind resistance as specified in Section 1705.3, 1705.4, 1707 or 1708.
- For each type of special inspection, identification as to whether it will be continuous special inspection or periodic special inspection.

### Section (table) 1704.7 Required Verification and Inspection of Soils

- Verify materials below footings are adequate to achieve the design bearing capacity shall be performed periodically during task.
- Verify excavations are extended to proper depth and have reached proper material, shall be performed periodically during task.
- Perform classification and testing of controlled fill material, shall be performed periodically during task.
- Verify use of proper material, densities and fill thickness during placement and compaction of controlled fill, shall be performed continuously during task.
- Prior to placement of controlled fill, observe subgrade and verify that it had been prepared properly, shall be performed periodically during task.

### Observation & Testing Program

The project soils engineer shall perform the inspection & testing for the following tasks:

- Final plans
- Shipping and clearing of vegetation
- Recompaction of scarification soils
- Fill placement and compaction
- Over excavating
- Verification of soil type & depth
- Final report

The soil engineer of work shall be Mid-Coast Geotechnical, Inc., P.O. Box 3125, Paso Robles, CA 93447-3125, Phone (805) 237-1462  
Soils report # 16147

The project engineer of work shall perform the inspection for the following tasks:

- Rough grading & site preparation
- Final grading inspection prior to final County inspection

The project engineer of work shall be Tim Roberts of Roberts Engineering, Inc., RCE 33366, 2015 Vista de la Vía, Tempe, CA 94564, Phone (805) 238-0464

The Engineer of work shall date in writing the work & in substantial conformance with the approved plans.

The person responsible for BMP inspection is Paul Hillard, phone (805) 410-0756.

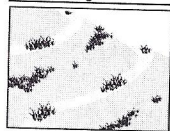
## TREE PROTECTION NOTES

- No oak tree shall be removed without prior County approval.
- Trees within 20 feet of grading or trenching shall be protected by placement of protective fencing as indicated.
- Protective fencing shall be four feet high chain link or safety fence, and shall be placed at the dip line unless otherwise indicated.
- Trenching and excavation within tree drip lines shall be hand dug or bored to minimize root disturbance. Any root encountered 1/2 diameter or greater, shall be hand cut and appropriately treated.
- Planting of lower limbs in the construction area shall occur prior to construction activities to minimize damage.

## EROSION CONTROL & INSPECTIONS

Erosion and Sediment Control Best Management Practices must be in place and functional PRIOR to the first inspection. No inspections can be performed if they are not in place or have failed to provide erosion control. Failure to maintain erosion control will cause inspections to be delayed until erosion control measures are functional.

## Hydroseeding



DESCRIPTION AND PURPOSE  
Hydroseeding is a method of applying a mixture of a hydroseed mix, water, and fertilizer to a slope to establish vegetation. The hydroseed mix is applied to the slope and the water and fertilizer help the seeds to germinate and grow.

SEEDING APPLICATIONS  
Hydroseeding is used for revegetation of slopes, erosion control, and for establishing vegetation on disturbed areas. It is also used for establishing vegetation on slopes that are difficult to reach by other methods.

SEEDING MATERIALS  
The hydroseed mix consists of a mixture of seeds, fertilizer, and a binding agent. The seeds are typically a mixture of grasses and legumes. The fertilizer is typically a slow-release fertilizer. The binding agent is typically a polymer that helps the mix to adhere to the slope.

SEEDING EQUIPMENT  
Hydroseeding is typically done using a hydroseeder. The hydroseeder is a machine that mixes the hydroseed mix, water, and fertilizer and then applies the mixture to the slope. It can be used on a variety of slopes and in a variety of environments.

SEEDING COSTS  
The cost of hydroseeding varies depending on the slope, the amount of material, and the equipment used. It is typically the most cost-effective method of establishing vegetation on a slope.

SEEDING MAINTENANCE  
After hydroseeding, the slope should be monitored for vegetation growth. If the vegetation does not grow, the slope should be reseeded. The slope should also be protected from erosion during the establishment of the vegetation.

SEEDING NOTES  
Hydroseeding is a highly effective method of establishing vegetation on a slope. It is also a highly cost-effective method. It is important to use the correct materials and equipment to ensure the best results.

SEEDING REFERENCES  
California Building Code (CBC) Chapter 17  
California Erosion Control Manual (CECM) Chapter 10  
California Erosion Control Manual (CECM) Chapter 11

SEEDING CONTACTS  
Timothy P. Roberts, RCE 33366, 2015 Vista de la Vía, Tempe, CA 94564, Phone (805) 238-0464

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Timothy P. Roberts, RCE 33366, 2015 Vista de la Vía, Tempe, CA 94564, Phone (805) 238-0464

SEEDING NOTES  
Hydroseeding is a highly effective method of establishing vegetation on a slope. It is also a highly cost-effective method. It is important to use the correct materials and equipment to ensure the best results.

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## EC-4



DESCRIPTION AND PURPOSE  
EC-4 is a method of applying a seed mix to a slope to establish vegetation. The seed mix is applied to the slope and the water and fertilizer help the seeds to germinate and grow.

SEEDING APPLICATIONS  
EC-4 is used for revegetation of slopes, erosion control, and for establishing vegetation on disturbed areas. It is also used for establishing vegetation on slopes that are difficult to reach by other methods.

SEEDING MATERIALS  
The seed mix consists of a mixture of seeds, fertilizer, and a binding agent. The seeds are typically a mixture of grasses and legumes. The fertilizer is typically a slow-release fertilizer. The binding agent is typically a polymer that helps the mix to adhere to the slope.

SEEDING EQUIPMENT  
EC-4 is typically done using a seed spreader. The seed spreader is a machine that mixes the seed mix, water, and fertilizer and then applies the mixture to the slope. It can be used on a variety of slopes and in a variety of environments.

SEEDING COSTS  
The cost of EC-4 varies depending on the slope, the amount of material, and the equipment used. It is typically the most cost-effective method of establishing vegetation on a slope.

SEEDING MAINTENANCE  
After EC-4, the slope should be monitored for vegetation growth. If the vegetation does not grow, the slope should be reseeded. The slope should also be protected from erosion during the establishment of the vegetation.

SEEDING NOTES  
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## Storm Drain Inlet Protection



DESCRIPTION AND PURPOSE  
Storm drain inlet protection is a device that is installed at the inlet of a storm drain to prevent debris and sediment from entering the drain. It is typically made of a heavy-duty material and is designed to be easily removed for cleaning.

SEEDING APPLICATIONS  
Storm drain inlet protection is used to prevent debris and sediment from entering the drain. It is typically installed at the inlet of a storm drain that carries water from a paved area or a parking lot.

SEEDING MATERIALS  
The storm drain inlet protection is typically made of a heavy-duty material, such as metal or plastic. It is designed to be easily removed for cleaning.

SEEDING EQUIPMENT  
Storm drain inlet protection is typically installed using a shovel or a similar tool. It is designed to be easily removed for cleaning.

SEEDING COSTS  
The cost of storm drain inlet protection varies depending on the size of the drain and the material used. It is typically the most cost-effective method of preventing debris and sediment from entering the drain.

SEEDING MAINTENANCE  
Storm drain inlet protection should be inspected regularly to ensure it is functioning properly. It should be removed and cleaned if it becomes clogged with debris and sediment.

SEEDING NOTES  
Storm drain inlet protection is a highly effective method of preventing debris and sediment from entering the drain. It is also a highly cost-effective method. It is important to use the correct materials and equipment to ensure the best results.

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